

ELECTROSURGICAL GENERATOR

ABSTRACT OF THE DISCLOSURE

5 An electrosurgical generator which provides a constant power output particularly suited for cutting arc formation at an active electrode which exhibits a dynamic active surface area of varying geometry. Essentially constant power-based control is achieved through the utilization of a d.c. link voltage the level of which functions to establish the amplitude of the output of an RF resonant inverter. A dual loop feedback control is described wherein output power based control signals are slowly introduced at low gain, while link voltage based controls are comparatively rapidly applied. Enhanced
10 development of a controlling d.c. link voltage is achieved through the utilization of an input network incorporating a power factor correction stage.